

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973546

Luminaire Tested: FLR2-22-25-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

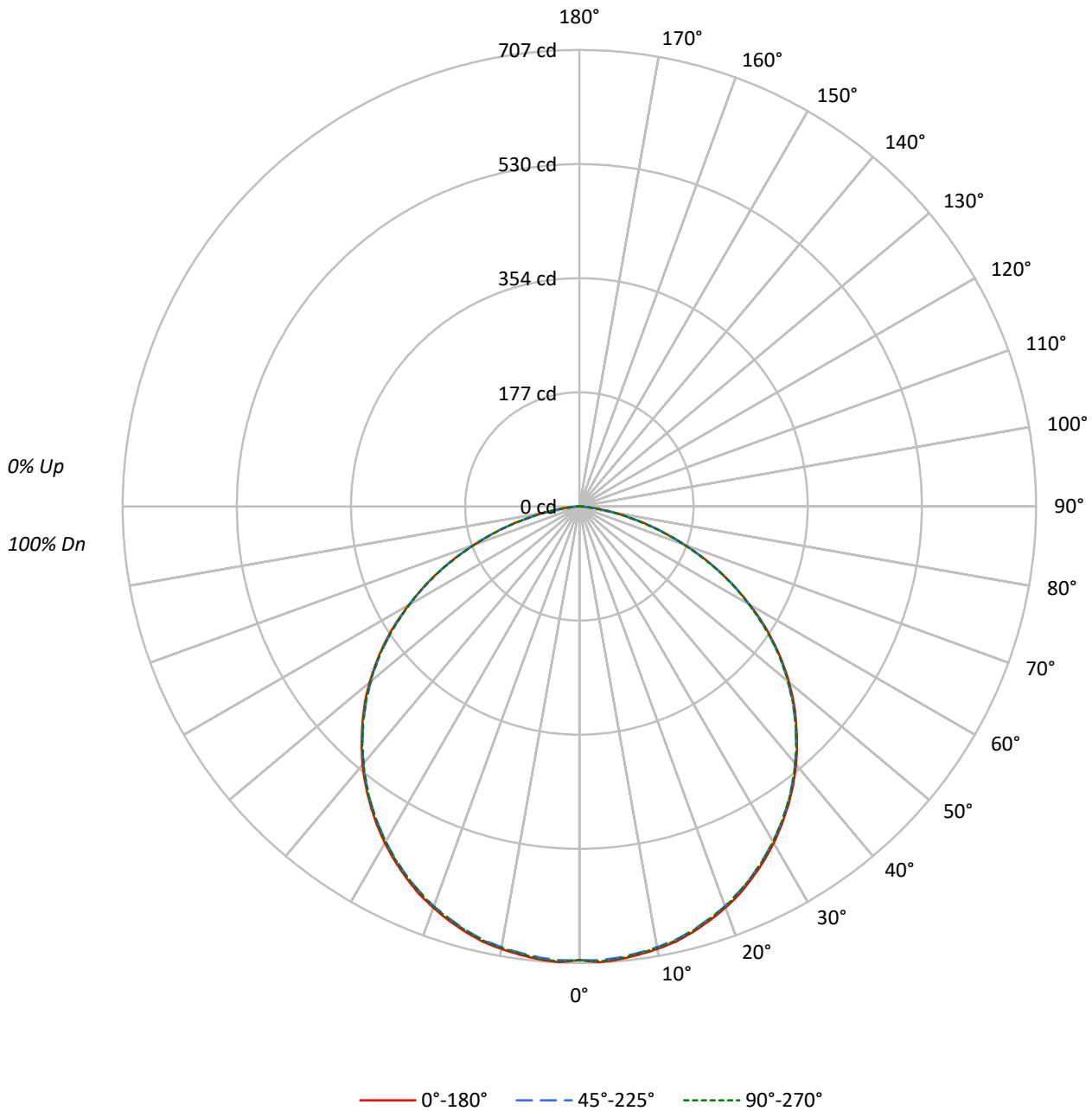
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1965.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100															
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71															
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60															
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30					30															
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1891	1891	1891
5°	1903	1894	1900
10°	1902	1894	1897
15°	1901	1892	1895
20°	1894	1887	1889
25°	1884	1876	1877
30°	1871	1863	1864
35°	1853	1846	1848
40°	1834	1825	1826
45°	1807	1799	1802
50°	1775	1762	1766
55°	1725	1711	1717
60°	1640	1633	1633
65°	1531	1528	1522
70°	1356	1363	1359
75°	1142	1132	1124
80°	820	807	800
85°	429	429	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.4
10°-20°	191.3	9.7
20°-30°	290.8	14.8
30°-40°	351.5	17.9
40°-50°	364.8	18.6
50°-60°	326.1	16.6
60°-70°	237.1	12.1
70°-80°	116.6	5.9
80°-90°	20.2	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	548.6	27.9
0°-40°	900.1	45.8
0°-60°	1591.0	81.0
0°-90°	1965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	704	696	701	699	704	67
15°	682	674	679	678	680	193
25°	634	628	632	631	632	292
35°	564	560	562	562	562	353
45°	475	473	473	474	474	366
55°	368	365	365	365	366	328
65°	240	241	240	240	239	237
75°	110	111	109	109	108	117
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.6	702.6	702.6	702.6	702.6
2.5°	706.6	698.3	703.5	700.5	705.3
5°	704.4	696.1	701.3	698.7	703.5
7.5°	700.5	692.2	697.4	694.8	698.7
10°	696.1	687.5	693.1	690.5	694.4
12.5°	690.5	682.2	687.5	685.3	688.8
15°	682.2	674.4	679.2	677.5	680.1
17.5°	672.3	664.5	669.2	667.9	670.1
20°	661.4	654.0	658.8	657.5	659.7
22.5°	649.3	641.5	645.8	644.9	646.7
25°	634.5	627.6	631.9	630.6	632.3
27.5°	618.9	612.4	615.8	615.8	616.7
30°	602.0	595.9	599.4	599.4	599.8
32.5°	583.7	579.0	581.1	581.6	581.6
35°	564.2	560.3	562.0	562.5	562.5
37.5°	543.8	539.9	541.2	542.1	542.1
40°	522.1	518.6	519.5	520.4	519.9
42.5°	498.7	496.1	496.5	497.4	497.4
45°	474.8	472.6	472.6	473.5	473.5
47.5°	450.5	448.3	447.5	448.3	448.3
50°	424.0	421.8	421.0	421.8	421.8
52.5°	396.2	394.1	394.1	394.1	394.5
55°	367.6	365.4	364.6	365.4	365.9
57.5°	337.2	336.4	335.0	335.5	334.2
60°	304.7	304.7	303.4	304.2	303.4
62.5°	273.0	273.9	272.6	272.6	271.7
65°	240.4	241.3	240.0	240.0	239.1
67.5°	207.0	208.3	206.6	206.6	205.7
70°	172.3	174.9	173.2	173.6	172.7
72.5°	141.1	142.4	140.6	140.6	139.7
75°	109.8	110.7	108.9	109.4	108.1
77.5°	79.0	80.3	78.6	79.0	78.6
80°	52.9	53.4	52.1	52.5	51.6
82.5°	30.8	31.2	30.8	30.4	29.9
85°	13.9	14.3	13.9	13.9	13.5
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)